



Water-Data Report 2006

01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ

HACKENSACK RIVER BASIN

LOCATION.--Lat 40°58'36", long 73°56'03" referenced to North American Datum of 1983, Alpine Borough, Bergen County, NJ, Hydrologic Unit 02030103, at foot of Anderson Avenue in Alpine, 1.6 mi southwest of Northvale, and 1.7 mi upstream of mouth.

DRAINAGE AREA.--0.35 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2002 to current year.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Date	Discharge, in ft³/s
Dec 12, 2005	0.79
Dec 21, 2005	0.68
Feb 7, 2006	0.68
Jun 5, 2006	0.84
Aug 9, 2006	0.02

01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Background and Low-Level Mercury Assessment special study site, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 5. Samples on Oct. 26 and Dec. 8 were for the low-level mercury assessment.

COOPERATION.--Physical measurements and samples for laboratory analyses on Oct. 26 and Dec. 8 were provided by personnel of the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)
Oct												
26...	1100	Field Blank	--	--	--	--	--	--	--	--	--	--
26...	1130	Environmental	--	1.5	--	--	749	11.3	98	7.2	80	8.6
Dec												
08...	1000	Field Blank	--	--	--	--	--	--	--	--	--	--
08...	1030	Environmental	--	.3	--	--	776	12.8	92	7.5	112	-3.1
21...	1030	Environmental	.68	.4	.059	.045	762	14.3	101	7.1	101	.0
Feb												
07...	1140	Environmental	.68	.3	.063	.045	755	13.5	103	6.9	128	5.0
Jun												
05...	1220	Environmental	.84	1.0	.115	.084	756	9.7	96	7.2	122	19.0
Aug												
09...	0915	Environmental	.02	1.0	.038	.029	762	7.2	78	6.5	119	20.0

01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than; E, estimated.]

Date	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue water, on evap. at 180degC wat flt mg/L (70300)
Oct													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	8.7	--	--	--	--	--	--	--	--	--	--	--	--
Dec													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	2.3	--	--	--	--	--	--	--	--	--	--	--	--
21...	1.2	29	7.09	2.77	.41	7.24	17	8.67	E.05	18.9	14.1	70	75
Feb													
07...	3.8	30	7.34	2.88	.41	12.0	17	16.5	E.05	17.3	14.4	82	88
Jun													
05...	14.7	32	7.87	2.89	.54	9.12	24	12.3	E.05	19.0	12.7	79	70
Aug													
09...	18.7	35	8.52	3.23	.59	7.50	27	7.87	E.06	23.8	14.3	83	87

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)
Oct													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
Dec													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	1	.14	E.009	.25	<.02	.39	--	E.005	E.003	.004	.2	<.1	.1
Feb													
07...	<1	.11	.016	.16	<.02	.27	--	E.007	E.003	E.003	.1	<.1	.1
Jun													
05...	1	.17	.010	.07	<.02	.25	--	E.010	.006	.006	<.1	<.1	<.1
Aug													
09...	8	E.07	.028	.23	.03	--	.33	.021	.013	.017	.2	<.1	.2

01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd ug/L (01002)	Barium, water, unfltrd recover -able, ug/L (01007)	Beryllium, water, unfltrd recover -able, ug/L (01012)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recover -able, ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover -able, ug/L (01034)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)
Oct													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--	--
Dec													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	2.1	E1.2	--	--	--	--	21	--	--	--	--	--	--
Feb													
07...	2.1	E1.2	.12	.21	11.6	<.06	21	25	<.04	.33	1.3	16	E.05
Jun													
05...	3.7	<1.0	--	--	--	--	29	--	--	--	--	--	--
Aug													
09...	1.3	<1.0	.20	.33	16.2	<.06	31	31	E.03	.30	1.7	69	.14

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than; E, estimated.]

Date	Manganese, water, unfltrd recover -able, ug/L (01055)	Mercury water, fltrd, low level ng/L (50287)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover -able, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)
Oct							
26...	--	<.04	--	--	--	--	--
26...	--	5.71	--	--	--	--	--
Dec							
08...	--	<.04	--	--	--	--	--
08...	--	1.28	--	--	--	--	--
21...	--	--	--	--	--	--	--
Feb							
07...	.7	--	<.010	.57	.08	<.16	3
Jun							
05...	--	--	--	--	--	--	--
Aug							
09...	23.0	--	<.010	.68	E.06	<.16	3

01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd, 0.7u GF ug/L (38746)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	3-Hydroxy carbo-furan, wat flt, 0.7u GF ug/L (49308)	Aci-fluor-fen, water, fltrd, 0.7u GF ug/L (49315)	Aldi-carb sulfone, water, fltrd, 0.7u GF ug/L (49313)	Aldi-carb sulf-oxide, wat flt, 0.7u GF ug/L (49314)	Aldi-carb, water, fltrd, 0.7u GF ug/L (49312)	Atra-zine, water, fltrd, ug/L (39632)
Jun 05...	1220	<.190	<.04	<.02	<.03	<.08	<.032	<.008	<.028	<.02	<.102	<.15	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than.]

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl water, fltrd, ug/L (50300)	Bensul-furon-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, 0.7u GF ug/L (38711)	Broma-cil, water, fltrd, ug/L (04029)	Brom-oxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf-feine, water, fltrd, ug/L (50305)	Car-baryl, water, fltrd, 0.7u GF ug/L (49310)	Carbo-furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor-amben methyl ester, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-tri-azine, wat flt, ug/L (04039)	Clopyr-alid, water, fltrd, 0.7u GF ug/L (49305)
Jun 05...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	<.02	<.016	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than.]

Date	Cyclo-ate, water, fltrd, ug/L (04031)	Dacthal mono-acid, water, fltrd, 0.7u GF ug/L (49304)	Dicamba water, fltrd, 0.7u GF ug/L (38442)	Di-chlor-prop, water, fltrd, 0.7u GF ug/L (49302)	Dinoseb water, fltrd, 0.7u GF ug/L (49301)	Diphen-amid, water, fltrd, ug/L (04033)	Diuron, water, fltrd, 0.7u GF ug/L (49300)	Fenuron water, fltrd, 0.7u GF ug/L (49297)	Flumet-sulam, water, fltrd, ug/L (61694)	Fluo-meturon, water, fltrd, 0.7u GF ug/L (38811)	Imaza-quin, water, fltrd, ug/L (50356)	Imaze-thapyr, water, fltrd, ug/L (50407)	Imida-cloprid, water, fltrd, ug/L (61695)
Jun 05...	<.01	<.03	<.04	<.03	<.04	<.01	<.01	<.10	<.04	<.02	<.04	<.04	<.020

01378400 DWARS KILL AT ANDERSON AVENUE, AT ALPINE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than.]

Date	Linuron water, fltrd 0.7u GF ug/L (38478)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Meta- laxyl, water, fltrd, ug/L (50359)	Methio- carb, water, fltrd 0.7u GF ug/L (38501)	Meth- omyl, water, fltrd 0.7u GF ug/L (49296)	Metsul- furon, water, fltrd, ug/L (61697)	N-(4- Chloro- phenyl)- N'- methyl- urea, ug/L (61692)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nico- sul- furon, water, fltrd, ug/L (50364)	Norflur azon, water, fltrd 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)
Jun 05...	<.01	<.07	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than.]

Date	Pic- loram, water, fltrd 0.7u GF ug/L (49291)	Propham water, fltrd 0.7u GF ug/L (49236)	Propi- cona- zole, water, fltrd, ug/L (50471)	Pro- poxur, water, fltrd 0.7u GF ug/L (38538)	Siduron water, fltrd, ug/L (38548)	Sulfo- met- ruron, water, fltrd, ug/L (50337)	Tebu- thiuron water, fltrd 0.7u GF ug/L (82670)	Terba- cil, water, fltrd, ug/L (04032)	Tri- clopyr, water, fltrd 0.7u GF ug/L (49235)
Jun 05...	<.03	<.030	<.01	<.008	<.02	<.090	<.026	<.026	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Temp- erature, water, deg C (00010)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)
Jul					
12...	0954	19.3	90	110	80
19...	1008	20.8	860	700	800
26...	1000	19.9	140	160	130
Aug					
02...	0951	21.9	5,600	440	1,100
09...	1005	19.9	160	130	110